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NSLDS II Reengineering Reports Detailed Design: Financial Aid History Report R-FAH-001

Version 1.1

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Table of Contents

1	FINANCIAL AID HISTORY REPORT	3
1.1	OVERVIEW	3
1.2	FAH EXCEPTION REPORT PROCESS OUTLINE	3
2	REPORT PARAMETER PROCESS.....	3
2.1	PARAMETER DEFINITIONS	4
2.2	PARAMETER SCREEN.....	4
2.3	PARAMETER TABLE STORED PROCEDURE.....	4
3	REPORT CALCULATIONS	5
4	REPORT TABLE LAYOUTS.....	5
5	FLAT FILE CREATION	14
5.1	INFORMATICA UNFORMATTED FILE GENERATION	15
5.2	JAVA FORMATTED FILE GENERATION.....	15
6	EXCEPTION REPORT DOWNLOAD PROCESS	16

Document Control

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1 Financial Aid History Report

Description	The Financial Aid History Report provides the financial aid history for selected students during a specified award year.
User Group	ED Users
Data Source	NSLDS II Data Mart
Output Media	Downloadable File
Frequency	On Request
Requirements Traceability	2.029
Output Media	Formatted flat file or Unformatted flat file (fixed character width)
Comments	This report corresponds to the FAT001 – Financial Aid History Report. This report will be generated in a formatted flat file or an unformatted file.

1.1 Overview

This report is a NSLDS II exception report, which has the following constraints that require the user to download the report instead of viewing it on the website.

- Result set is on average greater than 100,000 rows of data (affecting performance).
- Data must be able to be returned in formatted or unformatted flat file.
- Report must be available for download for up to 120 days.

1.2 FAH Exception Report Process Outline

Generating this FAH exception report is a multi-step process, which is initiated when a user enters the report parameters through a custom coded ASP screen within the NSLDS II website. The parameters are passed to a stored procedure on the database server, which populates a parameter table. From there a stored procedure processes the results and stores them inside a database table. Depending on the user request, Informatica will either convert the report table to an unformatted flat file or a Java procedure will be called to generate a formatted flat file from the report table contents. Both the unformatted flat file or the formatted flat file are available to the website for download.

2 Report Parameter Process

A user will navigate to the report parameter page through the NSLDS II website. Here the user will select to run a particular FAH exception report. The user will enter the report parameters that are stored in a table for each specific report request.

2.1 Parameter Definitions

The user will have the ability to request financial aid history information on up to 19 students. A user will have to enter at least one set of student parameters for a report to be generated.

Financial Aid History Report Parameters

Parameter	Description
Social Security Number	This parameter stores the student's social security number.
Last Name	This parameter stores the student's last name.
First Name	This parameter stores the student's first name.
Date of Birth	This parameter stores the student's date of birth.
Pell Grant Award	This parameter stores the fiscal year of the Pell Grant Award year.
Output Type	This parameter would hold whether the report would be formatted or unformatted.

2.2 Parameter Screen

Please refer to the NSLDS II Reengineering Screens Detail Design: Reports document for further details on this parameter screen.

2.3 Parameter Table Stored Procedure

The parameter table stored procedure populates a parameter table with the report parameters from the ASP action page. This parameter table, called FAH010_PARM, is a specifically created table for the Financial Aid History Report's parameters. Once the report request is inserted into the table a UNIX script will be triggered to call the Informatica procedure that will extract the parameter elements from the parameter table. The UNIX script will also pass the values for the user ID, report ID, and the report timestamp value within the parameter table. These three values are needed by Informatica to identify the correct record.

FAH010_PARM Table

Column	Type	Length	Description
ID	Num	6	This column is the primary key of the table. This number uniquely identifies each row. This ID creases incrementally by 1 with each new row. This column is system generated.
USER_ID	Char	8	This column records the user ID of the individual requesting the report.
RPT_ID	Char	6	This column stores the report ID. Example value of this column would be 'FAH010'.
TIMESTAMP	Date	8	This column holds the time stamp when the report request is generated.
RPT_SEQ_NO	Char	2	This column holds the sequence number for the report. Each individual set of student parameters will have a different sequence number.

Column	Type	Length	Description
SSN	Char	9	This column holds the student's social security number.
LST_NM	Char	20	This column holds the student's last name.
FST_NM	Char	15	This column holds the student's first name.
DOB	Char	8	This column holds the student's date of birth.
PELL_AWD	Char	4	This column holds the student's Pell Award Year.
OUTPUT	Char	1	This column holds the indicator on how the report is formatted, either a flat file or a formatted file. A value 0 means unformatted and a value of 1 means formatted.

3 Report Calculations

A separate procedure will calculate all the necessary information on the report. Once this data has been calculated it is populates the FAH report tables.

Refer to the Financial Aid History Interface Detailed Design I-SCHL-3 document for more details on the calculation procedure.

4 Report Table Layouts

Below are the report table definitions that will hold the report information. These tables will have unique names based on whom and when the report request was began.

Header Record Layout Table

HEADER_REC_LAYOUT

Data Element	Type	Description
USER_ID	Char	This column records the user ID of the individual requesting the report.
RPT_ID	Char	This column stores the report ID. Example value of this column would be 'FAH010'.
TIMESTAMP	Date	This column holds the time stamp when the report request is generated.
RPT_SEQ_NO	Char	This column holds the sequence number for the report. Each individual set of student parameters will have a different sequence number.
REC_TYPE_IND	Char	Indicator used to identify the header record. Value must be '0'.
FILLER	Char	Dummy SSN for header record. Value is spaces.
HEADER_TITLE	Char	Title used to identify the header record. Value = "Financial Aid Transcript Header"
SCH_CODE	Char	An eight digit ED OPE Code used to identify the school and branch submitting the FAH request.
SERVICER_CODE	Char	An eight-digit code for the FAH servicer.

Data Element	Type	Description
REPORT_TYPE	Char	Type of format in which the FAH is provided.
SUBMITTAL_DATE	Date	Date on which the FAH was requested.
PROCESS_DATE	Date	Date on which the FAH was processed by NSLDS. Format is CCYYMMDD.
FILLER	Char	Attribute to complete record length.

Aggregates, Perkins, Error Codes, Flags Record Layout (Type 1) Table

AGG_PERK_ERR_FG_LAYOUT

Data Element	Type	Description
USER_ID	Char	This column records the user ID of the individual requesting the report.
RPT_ID	Char	This column stores the report ID. Example value of this column would be 'FAH010'.
TIMESTAMP	Date	This column holds the time stamp when the report request is generated.
RPT_SEQ_NO	Char	This column holds the sequence number for the report. Each individual set of student parameters will have a different sequence number.
REC_TYPE_IND	Char	Indicator used to identify the record. Value must be '1'.
STU_SSN	Num	Current SSN of the student for whom the FAH information is provided.
STU_FST_NM	Char	Current first name of the student for whom the FAH information is provided.
STU_LST_NM	Char	Current last name of the student for whom the FAH information is provided.
STU_DOB	Date	Date of birth (year, month, and day) of the student for whom the FAH information is provided. Format CCYYMMDD.
SCH_CODE	Num	An eight-digit ED OPE Code used to identify the school and branch submitting the FAH request. Last two digits equal 00 if no branch code.
DEF_LOAN_FG	Char	Indicates one or more defaulted loans. Value - 'Y' or 'N'.
DISCH_LOAN_FG	Char	Indicated one or more discharged loans. Value - 'Y' or 'N'.
LN_SAT_RP_ARR_FG	Char	Outstanding principal balance for subsidized loan types (D1, D6, and subsidized SF). Value is balance or 'N/A' if no applicable loans.
ACT_BANK_FG	Char	Indicates one or more active bankruptcy = 'Y' or 'N'.
AGG_SUB_OUT_BAL	Char	Outstanding principal balance for subsidized loan types (D1, D6, and subsidized SF). Value is balance or 'N/A' if no applicable loans.
AGG_UNSUB_OUT_PRIN_BAL	Char	Outstanding principal balance for unsubsidized loan types (D2, D5, and non-subsidized SF, SL, and SU).

Data Element	Type	Description
		Value is balance or 'N/A' if no applicable loans.
AGG_COM_OUT_PRIN_BAL	Char	Outstanding principal balance for subsidized and unsubsidized loan types (D1, D2, D5, D6, and subsidized and non-subsidized SF, SL, and SU). Value is balance or 'N/A' if no applicable loans.
AGG_FFEL_CON_OUT_PRIN_BAL	Char	Outstanding principal balance for FFEL consolidation loan type CL. Value is balance or 'N/A' if no applicable loans.
AGG_SUB_PEND_DIS	Char	Pending disbursements for subsidized loan types (D1, D6, and subsidized SF). Value is amount or 'N/A' if not applicable loans.
AGG_SUB_PEND_DIS	Char	Pending disbursements for unsubsidized loan types (D2, D5, RF, non-subsidized SF, SL, and SU). Value is amount or 'N/A' if no applicable loans.
AGG_COM_PEND_DIS	Char	Pending disbursements for subsidized and unsubsidized loan types (D1, D2, D5, D6, RF, subsidized and non-subsidized SF, SL, and SU). Value is amount or 'N/A' if no applicable loans.
AGG_SUB_TOTAL	Char	Total for subsidized loan types (D1, D6, and subsidized SF). Value is amount or 'N/A' if no applicable loans.
AGG_UNSUB_TOTAL	Char	Total for unsubsidized loan types (D2, D5, RF, non-subsidized SF, SL, and SU). Value is amount or 'N/A' if no applicable loans.
AGG_COM_TOT	Char	Total for subsidized and unsubsidized loan types (D1, D2, D5, D6, RF, subsidized and non-subsidized SF, SL, and SU). Value is amount or 'N/A' if no applicable loans.
AGG_FFEL_CON_TOT	Char	Total for FFEL consolidation loan type CL. Value is amount or 'N/A' if no applicable loans.
PERK_TOT_DIS	Char	Total Perkins (DU, EU, NU, and PU) Loan outstanding principal balance. Value is amount or 'N/A' if no applicable loans.
PERK_CURR_AW_YR_DIS_AMT	Char	Total Perkins (DU, EU, NU, and PU) disbursements for award year (July-June). Value is amount or 'N/A' if no applicable loans.
DL_MPN_FG	Char	Direct Loan Master Promissory Note Flag. 'A', 'I', 'C', 'N', 'U'.
ERR_CODE_1	Char	Reflects SSN Error. Value = '1'.
ERR_CODE_2	Char	Reflects Name Error. Value = '2'.
ERR_CODE_3	Char	Reflects Date of Birth Error. Value = '3'.

Data Element	Type	Description
ERR_CODE_4	Char	Reflects School Year Errors. Value = '4', '5', and '6'.
MATCH_FLAG	Char	Reflects successful/unsuccessful match of student/PLUS borrower against search of active database.

Error Codes Legend Table

ERR_CODE_LEGEND

Data Element	Type	Meaning
ERR_CODE_1	space	No error.
	1	SSN must not be spaces.
ERR_CODE_2	space	No error.
	2	First name and last name must not be spaces.
ERR_CODE_3	space	No error.
	3	Invalid Date of Birth.
ERR_CODE_4	space	No error.
	4	School Year must be numeric.
	5	School Year must not be greater than current school year.
	6	School Year field length must be equal to 4.

Match Flag Legend Table

MATCH_FG_LEGEND

Data Element	Value	Description
MATCH_FLAG	0	Successful match. No error.
	1	Servicer and School User association not found.
	2	Successful match. Student has no selectable loans.
	3	Successful match. Student has no selectable loans and grants.
	6	Student Social Security Number not found.
	7	Match on SSN. No match on DOB and Name.

Name History Record Layout (Type 2) Table

NAME_HIST_REC_LAYOUT

Data Element	Type	Description
USER_ID	Char	This column records the user ID of the individual requesting the report.
RPT_ID	Char	This column stores the report ID. Example value of this column would be 'FAH010'.
TIMESTAMP	Date	This column holds the time stamp when the report request is generated.
RPT_SEQ_NO	Char	This column holds the sequence number for the report. Each individual set of student parameters will have a different sequence number.
STU_SSN	Char	Current SSN of the student for whom the FAH is provided.
STU_FST_NM	Char	Current first name of the student for whom the FAH is provided. Value = "NFN" if student has no first name.
STU_LST_NM	Char	Current last name of the student for whom the FAH is provided. Value = "NLN" if student has no last name.
STU_DOB	Date	Date of Birth (year, month, and day) of the student for whom the FAH is provided. Format is CCYYMMDD.
SCH_CODE	Char	An eight-digit ED OPE Code used to identify the school and branch submitting the FAH request. Last two digits equal 00 if no branch code.
FIRST_NAME_HISTORY	Char	Other first name of the student for whom the FAH is provided. Value = "NFN" if student has no first name.
MIDD_INIT_HISTORY	Char	Other middle initial used by the student for whom the FAH is provided, if available.
LAST_NAME_HISTORY	Char	Other last name used by the student for whom the FAH is provided. Value = "NLN" if student has no last name.

Overpayment Record Layout Table (Type 3) Table

OVERPAY_REC_LAYOUT

Data Element	Type	Description
USER_ID	Char	This column records the user ID of the individual requesting the report.
RPT_ID	Char	This column stores the report ID. Example value of this column would be 'FAH010'.
TIMESTAMP	Date	This column holds the time stamp when the report request is generated.
RPT_SEQ_NO	Char	This column holds the sequence number for the report. Each individual set of student parameters will have a different sequence number.
STU_SSN	Char	Current SSN of the student for whom the FAH is

Data Element	Type	Description
		provided.
FST_NM	Char	Current first name of the student for whom the FAH is provided. Value 'NFN' if student has no first name.
LAST_NM	Char	Current last name of the student for whom the FAH is provided. Value 'NLN' if student has no last name.
STU_DOB	Date	Date of Birth (year, month, and day) of the student for whom the FAH is provided. Format is CCYYMMDD.
SCH_CODE	Char	An eight-digit ED OPE Code used to identify the school and branch submitting the FAH request. Last two digits equal 00 if no branch code.
OVRPMT_TYPE	Char	Overpayment Types : PE=Pell ; SE = FSEOG ; PK = Perkins (PU, NU, EU and DU)
OVRPMT_IND	Char	Indicates overpayment 'Y' = Yes; 'N' = No; 'S' = Satisfactory Arrangements.
AWD_YR	Date	Award Year on which the overpayment was disbursed.
CONTACT	Char	Contact for Pell overpayment. Value is 'N/A' when no overpayments, contact code when one overpayment, or 'Y' when more than one overpayment.

Pell Payment Record Layout (Type 4)

PELL_PAY_REC_LAYOUT

Data Element	Type	Description
USER_ID	Char	This column records the user ID of the individual requesting the report.
RPT_ID	Char	This column stores the report ID. Example value of this column would be 'FAH010'.
TIMESTAMP	Date	This column holds the time stamp when the report request is generated.
RPT_SEQ_NO	Char	This column holds the sequence number for the report. Each individual set of student parameters will have a different sequence number.
STU_SSN	Char	Current SSN of the student for whom the FAH is provided.
FST_NM	Char	Current first name of student for whom the FAH is provided. Value = 'NFN' if student has no first name.

Data Element	Type	Description
LST_NM	Char	Current last name of the student for whom the FAH is provided. Value 'NLN' if student has no last name.
STU_DOB	Date	Date of Birth (year, month, and day) of the student for whom the FAH is provided. Format is CCYYMMDD.
SCH_CODE	Char	An eight-digit ED OPE Code used to identify the school and branch submitting the FAH request. Last two digits equal 00 if no branch code.
SCH_AMT	Num	Scheduled amount of the Federal Pell Grant award.
AMT_PD_DATE	Num	The amount of the Federal Pell Grant the school has disbursed to the student.
REM_AMT_PAY	Num	The remaining Federal Pell Grant amount to be disbursed for the award year.
AWD_YR	Char	The academic year for the Federal Pell Grant program, beginning July 1 and ending June 30 of the following year.
PERCNT_ELIG_USED	Num	Segment percentage of eligibility used. Format 999V99; for example, 10000 represents 100.00%.
TRAN_NO	Char	Transaction number on the SAR or ISIR for the payment accepted by the school.
AS_OF_DATE	Char	Date disbursement was made or will be made to student. Format is CCYYMMDD. Value is date or 'N/A'.
ACCEPT_VERIF_STATUS	Char	Accepted verification status. Value is status or 'N/A'.
EXP_FAM_CONTRIB	Num	Index produced by the Congressional Methodology (CM) needs analysis assessment.
AWD_AMT	Num	Accepted origination amount.
SCH_CODE	Char	An eight-digit ED OPE Code used to identify the school and branch associated with the Pell Grant. Last two digits equal 00 if no branch code. Value is school code or 'N/A'.

Loan Detail Record Layout (Type 5) Table

LOAN_DET_REC_LAYOUT

Data Element	Type	Description
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Data Element	Type	Description
USER_ID	Char	This column records the user ID of the individual requesting the report.
RPT_ID	Char	This column stores the report ID. Example value of this column would be 'FAH010'.
TIMESTAMP	Date	This column holds the time stamp when the report request is generated.
RPT_SEQ_NO	Char	This column holds the sequence number for the report. Each individual set of student parameters will have a different sequence number.
STU_SSN	Char	Current SSN of the student for whom the FAH is provided.
FST_NM	Char	Current first name of student for whom the FAH is provided. Value = 'NFN' if student has no first name.
LST_NM	Char	Current last name of the student for whom the FAH is provided. Value 'NLN' if student has no last name.
STU_DOB	Date	Date of Birth (year, month, and day) of the student for whom the FAH is provided. Format is CCYYMMDD.
SCH_CODE	Char	An eight-digit ED OPE Code used to identify the school and branch submitting the FAH request. Last two digits equal 00 if no branch code.
LOAN_TYPE_CODE	Char	Code indicating the type of loan.
CURR_LOAN_STAT_CODE	Char	Code used to identify the current loan status of a student's loan.
CURR_LOAN_STAT_DT	Date	Date (year, month, and day) the current loan status code became effective. Format is CCYYMMDD.
OUT_PRIN_BAL	Char	Amount of outstanding principal balance. Value is balance or 'N/A'.
OUT_PRIN_BAL_DATE	Date	Date (year, month, and day) the outstanding principal balance was last updated. Format CCYYMMDD. Value is date or 'N/A' if date is not available.
LOAN_PER_BEGIN_DT	Date	Date (year, month, and day) the enrollment period begins for this loan. Format is CCYYMMDD. Value is date or 'N/A' if date is not available.
LOAN_PER_END_DT	Date	Date (year, month, and day) the enrollment period ends for this loan. Format is CCYYMMDD. Value is date or 'N/A' if date is not available.
CURR_GA_CODE	Char	Current Guaranty Agency code or 'N/A' if not available.

Data Element	Type	Description
ACAD_LVL	Char	Student's academic (grade level) at the time of loan.
CONTACT_TYPE	Char	Contact Type code. Values are : EDR = ED Region ; LEN = Lender ; SCH = School ; GA = Guaranty Agency ; DLS = Direct Loan Servicer ; LNSZ = Lender Servicer ; N/A = Not available.
NET_LOAN_AMT	Num	Amount of loan/guaranty minus total amount of cancellations.
CONTACT	Char	Code indicating the agency to be contacted for this loan. Value is 'N/A' if contact is not available.
SCHOOL_CODE	Char	An eight-digit ED OPE Code used to identify the school and branch attended by the student when the loan was originated. Last two digits equal 00 if no branch code.
ADD_UNSUB_LOAN_FG	Char	Additional Unsubsidized Loan Flag. Values are: 'P' = PLUS Denial; 'H' = Health Loan Program; 'B' = Both; 'N' = Neither
CAP_INT_FLAG	Char	Capitalized Interest flag. Values are 'Y' = Yes; 'N' = No.
AMT_OF_LST_DIS	Char	Amount of last disbursement given to student. Value is amount or 'N/A'.
DT_OF_LST_DIS	Date	Date (year, month, and day) the last disbursement was given to student, as reported by the Data Provider. Value is date or 'N/A' if date is not available.

Trailer Record Layout Table

TRAILER_REC_LAYOUT

Data Element	Type	Description
USER_ID	Char	This column records the user ID of the individual requesting the report.
RPT_ID	Char	This column stores the report ID. Example value of this column would be 'FAH010'.
TIMESTAMP	Date	This column holds the time stamp when the report request is generated.
RPT_SEQ_NO	Char	This column holds the sequence number for the report. Each individual set of student parameters will have a different sequence number.
REC_TYPE_IND	C	Indicator used to identify the trailer record. Value = '9'
FILLER	C	Dummy SSN for trailer record. Value is '999999999'.

Data Element	Type	Description
TRAILER_TITLE	C	Title used to identify the trailer record. Value = "Financial Aid Transcript Trailer"
MATCH_COUNT	Num	Total count of records for which matches were found.
RECORD_COUNT	Num	Total count of detail records on this file (excluding header and trailer).
ERROR_COUNT	Num	Total count of detail records with errors.

5 Flat File Creation

Upon completion of the population of the report table and usage code determination Informatica will read the value of the output type. The type of file generation will depend on the value of the output type filed on the report table.

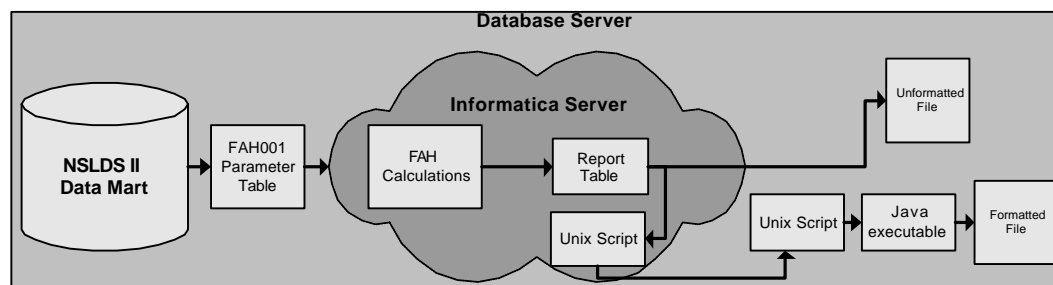


Figure 3, Flat File Generation Process

If Output code = 0

Call Informatica procedure to create unformatted flat file

If Output code = 1

Call Java procedure to create formatted flat file.

This file will have a unique naming convention based on the user ID, report ID, and report timestamp.

Naming format: User ID + Report ID + Report Timestamp

5.1 Informatica Unformatted File Generation

Informatica will extract data from the report table and generate the unformatted flat file. Upon completion the file will be housed in the exception reports file directory on the DB2 database server.

This file will have a unique naming convention based on the user ID, report ID, and report timestamp.

Naming format: User ID + Report ID + Report Timestamp

After the file is created, Informatica will trigger a post-process script file that will check if a directory on the database server with the same name as the user_id parameter exist. If the directory does exist, the file will be stored in that directory. If the directory does not exist, it will create the directory and store the file in it. This process will then execute a store-procedure to remove the report row from its Parameter Table.

5.2 Java Formatted File Generation

If the output type indicates the exception report has to be formatted, then:

1. Informatica will trigger a post-process script.
2. The post-process script will call a Unix script on the database server and pass the following input parameters:
 - user id
 - report id
 - report timestamp.
3. The post-process script will execute a 'wait' command for the DB2 script to complete.
4. The DB2 script will be executed as a background process to reduce CPU utilization. The DB2 script will execute a java process on the database server and wait for it to end.
5. The DB2 Unix script will pass the input parameters to the Java report executable, ReportGenerator.
6. The ReportGenerator object will call the ReportReader to generate the SQL statement using the input parameters (select * from report table where USER_ID = user_id, RPT_ID=report_id, and TIMESTAMP=report_timestamp).
7. The ReportReader will then access the Persistence Framework (defined in the Screens Application Architecture Detailed Design document), to obtain a WorkUnit containing the result set and return the results to the ReportGenerator.
8. The ReportGenerator will use the ReportWriterFactory to create a ReportWriter based on the report ID. The ReportWriter object will be called to create a file and write the file header, page headers, row headers, page footers, and file footer while iterating through the result set.

9. The File will check if a directory on the database server with the same name as the user_id parameter exists. If the directory exists, it will store the file in that directory. If the directory doesnot exist, it will create the directoryand store the file in it.
10. Once the Java executable has exited, the DB2 script can exit and processing control will return to the post-process script on the Informatica server. This process will then execute a store-procedure to remove the report row from its Parameter Table.

This file will have a unique naming convention based on the user ID, report ID, and report timestamp.

Naming format: User ID + Report ID + Report Timestamp

6 Exception Report Download Process

Exception Reports will be stored on the DB2 database server in a file directory specifically reserved for exception reports. This directory will have a separate folder structure for each user that requests an exception report. Users will be able to retrieve and download these reports from the NSLDS II website interface through an FTP connection to the database server. Users will have access to these reports up to 120 days after they have been created.

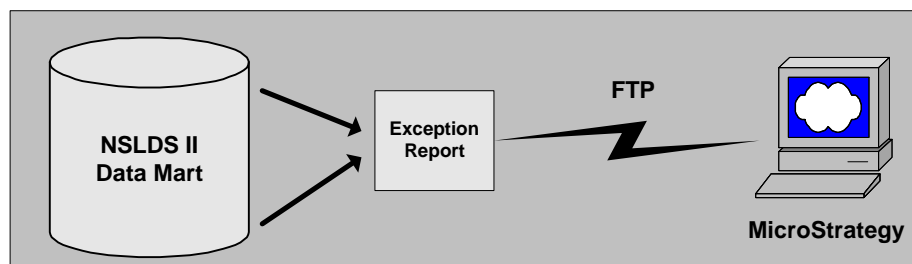


Figure 4, Report Download Process

In the MicroStrategy Web environment, there will be a specific screen where users will be able to retrieve their exception reports for download. On this screen will be an ASP code module that checks the DB2 database server file directory for any exception reports that have been generated each time the exception reports download page is accessed.

Displayed on this screen will be a dropdown box that will perform the following logic to only display those exception reports that the specific user has requested. This logic would check all files stored for the user inside their respective database file directory folder and match the user name embedded within file name to the current MicroStrategy user name:

```
If (User Name File on data set) = (MicroStrategy User Name)
    Display Exception Report Name in dropdown box
Else
    Do not display Exception Report Name in dropdown box
```


End

Once the dropdown is completely populated the user will select the requested report. The user will be prompted for their download directory on their computer where they can view the file.